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Atty. Docket No.: 8654/2072

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Krissansen, et al.
Serial No.: 10/014,887
Filed: December 11, 2001
Entitled: "Cancer Therapy"

Examiner: Not Yet Assigned
Group Art Unit: 1615
Conf. No.: 2382

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8a

I hereby certify that this correspondence (and any paper or fee referred to as being enclosed) is being deposited with the United States Post Office as First Class Mail on the date indicated below in an envelope addressed to Commissioner for Patents, Washington, D.C. 20231.

David J. Dykeman

Name of Person Mailing Paper

Signature of Person Mailing Paper

Commissioner for Patents
Washington, D.C. 20231

TRANSMITTAL LETTER

Enclosed for filing in the above-identified patent application, please find the following documents:

1. Supplemental Information Disclosure Statement;
2. Form PTO-1449 citing 124 references;
3. Copies of 124 cited references; and
4. Return Post Card.

The Commissioner for Patents is hereby authorized to charge any additional fees or credit any overpayment in the total fees to Deposit Account No. 16-0085, Reference No. 8654/2072. A duplicate of this transmittal letter is enclosed for this purpose.

Date: January 22, 2003

Respectfully submitted,

Name: David J. Dykeman
Registration No.: 46,678
Customer No.: 29933
Palmer & Dodge LLP
111 Huntington Avenue
Boston, MA 02199-7613
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56, 1.97 AND 1.98

Dear Sir:

In accordance with the duty of disclosure under 37 CFR § 1.56, Applicant submits this Supplemental Information Disclosure Statement pursuant to 37 CFR §§ 1.97 and 1.98 in the above-identified application for consideration by the Patent Office. A listing of the cited documents is also enclosed, as well as, for the Examiner's convenience, copies of the documents in the list. Pursuant to CFR § 1.97(b)(3), because this Statement is being submitted before the first Office Action on the merits, no fee is required.

Applicant does not intend to represent that any of the documents submitted herein are material prior art to this invention or that the list represents an exhaustive search of documents related to this invention.

Applicant respectfully requests that the documents submitted herein be considered and made of record in this application.

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Page 1 of 15



USPTO Form 1449

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U.S. Department of Commerce

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Attorney Docket No.

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SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT

Applicant(s): Krissansen, et al.

Filing Date: December 11, 2001

Group: 1615

U.S. PATENT DOCUMENTS

Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	1.	5,817,684	Oct. 6, 1998	Fleisch, et al.	514	381	
	2.	5,910,505	Jun. 8, 1999	Fleisch, et al.	514	381	
	3.	5,281,620	Jan. 25, 1994	Denny, et al.	514	455	

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Examiner Initial		Document No.	Publication Date	Country	Class	Subclass	Translation	
							YES	NO
	4.	EP 0 743 064	20 Nov. 1996	European	A61K	31/19		
	5.	WO 94/23753	27 Oct. 1994	PCT	A61K	47/48		
	6.	WO 95/09621	13 April 1995	PCT	A61K	31/195		
	7.	WO 97/34482	23 Sept. 1997	PCT	A01N	43/00		
	8.	WO 98/25600	18 June 1988	PCT	A61K	31/19		
	9.	WO 98/42335	1 Oct. 1998	PCT	A61K	31/41		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

	10.	Wilson, W., Baguley B.; "Combination of the Antivascular Agent DMXAA with Radiation and Chemotherapy", <u>International Journal of Oncology, Biology and Physics</u> , volume 46, number 3, February 1, 2000, abstract 46, page 706.
	11.	Rustin, G.; "Vascular Targeting in the Clinic"; Abstract; <u>ICTR 2000: 1st Int'l Conference on Translational Research A.</u> , 2000.
	12.	Baguley, B.C. et al; "291 mechanisms of Tumor Blood Flow Inhibition by The Antitumour Drug DMXAA (5,6-dimethylxanthenone-4-acetic acid"; <u>Proceedings of the 11th NCI EORTC AACR Symposium; Copyright © 2000 Stichting NCI-EORTC Symposium on new drugs in cancer therapy; publ. By the AACR; Published as a Supplement to Clinical Cancer Research, vol 6, November 2000.</u>
	13.	Chaplin, D.J., et al; "Antivascular approaches to solid tumor therapy; evaluation of tubulin binding agents"; <u>Proc. Annu. Meet. Am. Assoc. Cancer Res.</u> , March 1996, vol 37, #3009: 440-441 and Abstract.
	14.	Hornung R. L., et al; "Augmentation of Natural Killer Activity, Induction of IFN and Development Tumor Immunity During the Successful Treatment of Established Murine Renal Cancer Using Flavone Acetic Acid and IL-2"; <u>The Journal of Immunology</u> (1988) vol 141(10), pages 3671-3679.

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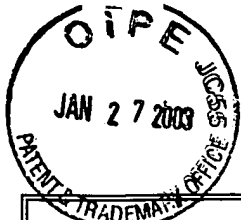
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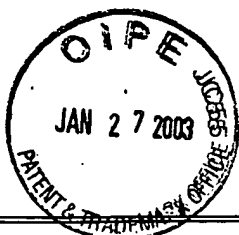
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	121.	5,914,340	June 22, 1999	Fleisch et al.	514	381	March 13, 1998	
	122.	5,977,077	November 2, 1999	Winter et al.	514	23	March 20, 1996	
FOREIGN PATENT DOCUMENTS								
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	15.	WO 98/42332	1 Oct. 1998	PCT	A61K	31/35		
	16.	WO 98/42336	1 Oct. 1998	PCT	A61K	31/52		
	17.	WO 98/42337	1 Oct. 1998	PCT	A61K	31/41		
	18.	WO 98/42346	1 Oct. 1998	PCT	A61K	31/52		
	19.	WO 98/42650	1 Oct. 1998	PCT	C07C	63/04		
	20.	WO 00/10600 A2	2 March 2000	PCT	A61K	39/00		
	21.	WO 00/10600 A3	2 March 2000	PCT	A61K	39/00		
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)								
	22.	Thomsen, L.L., et al.; "Nitric Oxide Production in endotoxin-resistant C3H/HeJ mice stimulated with flavone-8-acetic acid and xanthenone-4-acetic acid analogues"; <u>Biochem. Pharmacol.</u> , 43(11); pages 2401-2406; 1992.						
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	24.	Pedley, R.B., et al.; "Enhancement of antibody-directed enzyme prodrug therapy in colorectal xenografts by an antivascular agent"; <u>Cancer Res.</u> , 59(16), pages 3998-4003, August 15, 1999.						
	25.	Pruijn, F.B., et al.; "Mechanisms of enhancement of the antitumor activity of melphalan by the tumor blood flow inhibitor 5, 6-dimethylxanthenone-4-acetic acid"; <u>Cancer Chemother. Pharmacol.</u> , 39(6), pages 541-546, 1997.						
	26.	Rewcastle, et al.; "Potential Antitumor Agents. 58. Synthesis and Structure-Activity Relationships of Substituted Xanthenone-4-acetic Acids Active against the Colon 38 Tumor in Vivo"; <u>J. Med. Chem.</u> 32(4), pages 793-799, 1989.						
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	123.	5,998,454	December 7, 1999	Fleisch et al.	514	381	March 13, 1998	
	124.	U.S. Patent Application Publication No. 2001/0027210	October 4, 2001	Wilson	514	455	January 31, 2001	
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Examiner Initial		Document No.	Publication Date	Country	Class	Subclass	Translation	
							YES	NO
	27.	WO 00/16798	30 March 2000	PCT	A61K	38/28		
	28.	WO 01/34135 A2	17 May 2001	PCT	A61K	31/00		
	29.	WO 01/34137 A2	17 May 2001	PCT	A61K	31/00		
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	31.	WO 01/34198 A2	17 May 2001	PCT	A61K	41/00		
	32.	WO 02/09700 A1	7 Feb. 2002	PCT	A61K	31/352		
	33.	WO 00/48591	24 Aug. 2000	PCT	A61K	31/198		
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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)								
	35.	Cliffe, S., et al.; "Combining bioreductive drugs (SR 4233 or SN 23862) with the vasoactive agents flavone acetic acid or 5, 6-dimethylxanthenone acetic acid"; <u>Int. J. Radiation Oncology Biol. Phys.</u> , 29(2), pages 373-377, 1994.						
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	37.	Ching, L.-M., et al.; "Effect of thalidomide on tumor necrosis factor production and anti-tumor activity induced by 5, 6-dimethylxanthenone-4-acetic acid"; <u>Br. J. Cancer</u> , 72(2), pages 339-343, 1995.						
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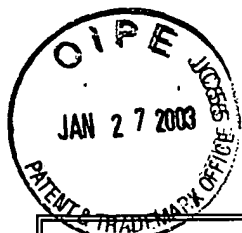
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	39.	EP 0 584 001 B1	14 May 1997	European	A61K	31/335		
	40.	JP 001247459	11 Sept. 2001	Japan	A61K	31/352		
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)								
	41.	Ching, L.M., et al.; "Interaction of thalidomide, phthalimide analogues of thalidomide and pentoxifylline with the antitumor agent 5, 6-dimethylxanthenone-4-acetic acid: concomitant reduction of serum tumor necrosis factor-alpha and enhancement of antitumour activity"; <u>Br. J. Cancer</u> , 78(3), pages 336-343, 1998.						
	42.	Kestell, P., et al.; "Modulation of the pharmacokinetics of the antitumor agent 5,6-dimethylxanthenone-4-acetic acid (DMXAA) in mice by thalidomide"; <u>Cancer Chemother. Pharmacol.</u> , 46(2), pages 135-141, 2000.						
	43.	Cao, Z., et al.; "Thalidomide increases both intra-tumoural tumor necrosis factor-alpha production and anti-tumor activity in response to 5, 6-dimethylxanthenone-4-acetic acid"; <u>Br. J. Cancer</u> , 80(5/6), pages 716-723, 1999.						
	44.	Baguley, B.C., et al.; "Serotonin involvement in the antitumour and host effects of flavone-8-acetic acid and 5, 6-dimethylxanthenone-4-acetic acid"; <u>Cancer Chemother. Pharmacol.</u> , 33(1), pages 77-81, 1993.						
	45.	Zwi, L.J., et al.; "Correlation between immune and vascular activities of xanthenone acetic acid antitumor agents"; <u>Oncol. Res.</u> , 6(2), pages 79-85, 1994.						
	46.	Zhao, L., et al.; "Effects of the serotonin receptor antagonist cyproheptadine on the activity and pharmacokinetics of 5, 6-dimethylxanthenone-4-acetic acid (DMXAA)"; <u>Cancer Chemother. Pharmacol.</u> , 47(6), pages 491-497, 2001.						
	47.	Futami, H., et al.; "Cytokine induction and therapeutic synergy with interleukin-2 against murine renal and colon cancers by xanthenone-4-acetic acid derivatives"; <u>J. Immunother.</u> , 12(4), pages 247-255, 1992.						
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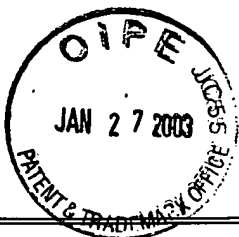
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	48.	Ching, L.M., et al.; "Interaction between endotoxin and the antitumour agent 5, 6-dimethylxanthenone-4-acetic acid in the induction of tumor necrosis factor and haemorrhagic necrosis of colon 38 tumors"; <u>Cancer Chemother. Pharmacol.</u> , 35(2), pages 153-160, 1994.					
	49.	Ching, L.M., et al.; "Induction of intratumoral tumor necrosis factor (TNF) synthesis and hemorrhagic necrosis by 5, 6-dimethylxanthenone-4-acetic acid (DMXAA) in TNF knockout mice"; <u>Cancer Res.</u> , 59(14), pages 3304-3307, 1999.					
	50.	Thomsen, L.L., et al.; "Tumor-dependent increased plasma nitrate concentrations as an indication of the antitumor effect of flavone-8-acetic acid and analogues in mice"; <u>Cancer Res.</u> , 51(1), pages 77-81, 1991.					
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	52.	Kanwar, J.R., et al.; "Taking lessons from dendritic cells: Multiple xenogeneic ligands for leukocyte integrins have the potential to stimulate anti-tumor immunity"; <u>Gene Therapy</u> , 6: pages 1835-1844, 1999.					
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	54.	Fujii H, et al, "Vaccination with B7-18 tumor and anti-adhesion therapy with RGD pseudo-peptide (FC-336) efficiently induce anti-metastatic effect"; <u>Clinical & Experimental Metastasis</u> , volume 16, pages 141-148, 1998.					
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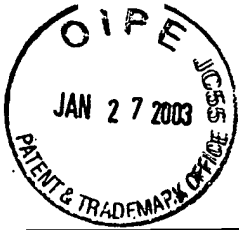
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	55.	Zitvogel L., et al.; "Interleukin-12 and b7.1 co-stimulation co-operate in the induction of effective antitumor immunity and therapy of established tumor"; <u>Eur. J. Immunol.</u> (1996), volume 26, pages 1335-1341.					
	56.	Lissoni P., et al, "Neuroimmunotherapy of advanced solid neoplasms with single evening subcutaneous injection of low-dose interleukin-2 and melatonin Preliminary results"; <u>European Journal of Cancer</u> , (1993), volume 29A(2), pages 185-189.					
	57.	Nawrocki S., and Mackiewicz A., "Genetically modified tumor vaccines-where we are today"; <u>Cancer Treatment Reviews</u> , (1999), volume 25, pages 29-46.					
	58.	Thrash-Bingham C. A., and Tartof K. D.; "aHIF: A natural antisense transcript overexpressed in human renal cancer during hypoxia"; <u>The Journal of the National Cancer Institute</u> , (1999), volume 91(2), pages 143-151.					
	59.	"Combretastatin Update 1: In Ohio Phase 1 Trial, Some Tumors Respond, Patients Experience Vascular Stress"; <u>PSA Rising; Medical Pike Briefs; Headline Index: Clinical Trial Phase 1 Results</u> ; Nov. 8, 1999.					
	60.	Zhou, et al.; "A difference between the rat and mouse in the pharmacokinetic interaction of 5, 6-dimethylxanthene-4-acetic acid with thalidomide"; <u>Cancer Chemother Pharmacol</u> , (2001), 47(6), 541-544.					
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	61.	Zhou, et al.; "Determination of unbound concentration of the novel anti-tumor agent 5, 6-dimethylxanthenone-4-acetic acid in human plasma by ultrafiltration followed by high-performance liquid chromatography with fluorimetric detection"; <u>J. of Chromatography B</u> ; (2001) 757(2), 359-363.					
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	66.	Murata, et al.; "Comparative effects of combretastatin A-4 disodium phosphate and 5, 6-dimethylxanthenone-4-acetic acid on blood perfusion in a murine tumor and normal tissues"; <u>Int. J. Radiat. Biol.</u> ; (2001) vol. 77, no. 2, 195-204.					
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	67.	Zhou, et al.; "Identification of the Human Liver Cytochrome P450 Isoenzyme Responsible for the 6-Methylhydroxylation of the Novel Anticancer Drug 5, 6-Dimethylxanthenone-4-Acetic Acid"; <u>Drug Metabolism and Disposition</u> , A Publication of The American Soc. for Pharma. and Exper. Therap.; (2000) 28(12) 1449-1456.						
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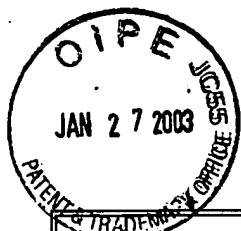
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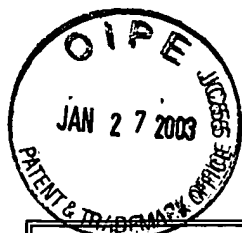
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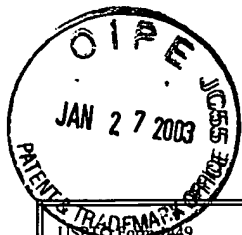
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